

DUPLICATE

PATENT COOPERATION TREATY

PCT

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22 APR 2005

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 99644-12133	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, Item 5 below.	
International application No. PCT/HU 03/00083	International filing date (day/month/year) 21/10/2003	(Earliest) Priority Date (day/month/year) 22/10/2002
Applicant NEW TECH TIRE LLC		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the International search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.

☐ the International search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the International application, the International search was carried out on the basis of the sequence listing:

☐ contained in the International application in written form.

☐ filed together with the International application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the International application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

NON-PNEUMATIC, LEAF SPRING-SUPPORTED VEHICLE TIRE

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

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☐ None of the figures.

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ational application No.

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Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

Vehicle tyre with a body made of an elastic material, preferably of rubber or poly-urethane, comprising a crown portion (1.1) containing the running surface, and two sidewalls (1.3) joining the crown portion via shoulder portions (1.2) and terminating in beads (1.4), and with leaf springs (2) situated in specified distances beside each other from the one bead to the other, and the beads (1.4) are clamped into a wheel rim (5). The leaf springs (2) are embedded into the elastic body at least along the crown portion (1.1) and the beads (1.4). The leaf springs (2) are provided with inwardly bent leaf spring ends (4) embedded into the beads (1.4). The shape of the leaf springs (2) in the orthogonal coordinate system having axes X and Y can be described by coordinates in the angle range of 0 as a semi-ellipse, where the semi-elliptic shape falls inside the range limited by ellipses determined by the equation:

where

is the half of the large axis of the ellipse

is the half of the small axis of the ellipse.

the

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60C7/16 B60C7/12 B60C7/22 B60C7/24		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 B60C		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 374 887 B1 (SUBOTICS GYULA) 23 April 2002 (2002-04-23) cited in the application column 4, line 29 - line 50 column 6, line 10 - line 17 column 7, line 10 - line 30 claim 1; figures 1,4,13,14	1,3
A	WO 00 37269 A (CONCEPTION ET DEV MICHELIN S A) 29 June 2000 (2000-06-29) page 4, line 28 -page 5, line 7 page 10, line 25 -page 11, line 8; figures 1,6	1,3
A	US 1 625 679 A (PEARSON GEORGE D) 19 April 1927 (1927-04-19) figures	1
<input type="checkbox"/> Further documents are listed in the continuation of box C.		<input checked="" type="checkbox"/> Patent family members are listed in annex.
* Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed		*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *G* document member of the same patent family
Date of the actual completion of the international search 26 January 2004		Date of mailing of the international search report 09/02/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016		Authorized officer Peschel, W

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6374887	B1	23-04-2002	HU 9902483 A2 AU 2365800 A WO 0040427 A1	28-05-2001 24-07-2000 13-07-2000
WO 0037269	A	29-06-2000	FR 2787388 A1 AU 1982700 A BR 9907940 A CN 1291142 T WO 0037269 A1 EP 1056604 A1 JP 2002532329 T US 2003213541 A1 US 6640859 B1	23-06-2000 12-07-2000 24-10-2000 11-04-2001 29-06-2000 06-12-2000 02-10-2002 20-11-2003 04-11-2003
US 1625679	A	19-04-1927	NONE	